

Project Name:	Department of Energy BMIS-FM
Project Number:	BMIS- Phoenix Project Phase I
DOE Proj Mgr:	Michael Fraser
IBM Proj Mgr:	Don A. Cox, PMP

Risk Analysis Report

Date.	07/31/01 (originated) <i>10/16/01 (updated)</i>	Document ID:	ENG 021/Risk ID 65
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Uncertainty in the level of FY2002 funding and potential delay in obtaining approval prevents ramp-up of Development Team resources. It is expected that as many as 15 developers will be required to staff the team to design and build system interfaces and conversions. Building the team will be a 60-90 day process.

Describe possible outcomes that have been identified: The following possible outcomes are associated with this risk:

- Since the level of funding is uncertain, it is not possible to initiate the development team staffing process early. This will delay the development process, resulting in an impact to the project schedule and cost.
- *The continuing delay in determining the availability of FY 2002 funding has impacted the ability of project management to ramp up IT Infrastructure resources, such as an additional DBA, a Configuration Management Specialist, and a Technical Specialist. The lack of a Configuration Management Specialist is an increasing risk to the project as it approaches the start of software development activities.*
- If, at the end of FY2001, the approval of FY2002 funding is delayed through continuing resolutions or like means, the development team staffing will be further delayed, impacting project schedule and cost to a still greater degree.
- If the budgeting process results in under-funding the project, then the project schedule and cost will be further impacted. In the worst case, approved funding could be insufficient to maintain the critical mass of resources required to keep the project moving forward.

Risk Symptom or Trigger	Event Horizon (expected timing if known)
Fluctuating estimates, or a complete lack of information, regarding anticipated FY2002 funding	08/01-09/01
FY2002 funding delayed beyond the start of FY2002	09/01-11/01
Project funded below threshold required to support project schedule	09/01
<i>Software development is underway without configuration management support</i>	<i>11/01-12/01</i>

Quantification of Impact:

- Uncertainty: 1-2 month project schedule impact. Cost impact associated with maintaining existing team an additional 1-2 months
- Funding below \$9M, reduced development team staffing, schedule and cost impact TBD.
- Funding below \$7M, critical mass staffing not achievable.

Type of Impact:

Scope: <input checked="" type="checkbox"/>	Schedule: <input checked="" type="checkbox"/>	Budget: <input checked="" type="checkbox"/>	Quality: <input checked="" type="checkbox"/>
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Classified As:

Opportunity to Pursue: <input type="checkbox"/>	Threat to Respond To: <input checked="" type="checkbox"/>
Opportunity to Ignore: <input type="checkbox"/>	Threat to Accept: <input type="checkbox"/>

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Response/Mitigation Strategy and Comments: This risk will be managed through phased staffing beginning at the earliest possible date. The search for appropriate skills is underway. BMIS Phoenix project management has received strong assurances from DOE senior management that project funding will not be an issue and continuity of funding will be maintained.

Configuration Management tools and processes will become more important as the portfolio of custom software programs under development grows. In the early phase of software development, the number of programs in process will be low, with a limited number of developers involved. For a short period during this early phase, configuration management can be performed manually by Development Team management through manual methods.

There are a number of approaches to containing the impact once 2002 funding is determined:

- The schedule can be compressed to contain the ramp-up delay by increasing the staffing level (if supported by funding)*
- The scope of development can be reassessed to prioritize out non-essential programming*
- The schedule can be extended, which may put Cap Center implementation at risk.*

Risk Identification and Evaluation Review and Sign-off:

DOE Project Manager:		<input type="checkbox"/> Approved as is <input type="checkbox"/> Approved pending noted changes <input type="checkbox"/> Not Approved

Signature	Date	

Team IBM Project Manager:		<input type="checkbox"/> Approved as is <input type="checkbox"/> Approved pending noted changes <input type="checkbox"/> Not Approved

Signature	Date	

